

WE CLAIM

1. A connectivity device, comprising:
 - a processor executing an operating system;
 - a first interface responsively coupled to the processor and adapted to communicate with a physically remote handheld portable communications device;

5 and

 - a second interface responsive to the processor and adapted to drive a physically remote display as a function of commands received from the physically remote handheld portable communications device.

10

2. The connectivity device as specified in Claim 1 wherein the operating system is configured as a USB host system providing a communication channel to the handheld portable communications device.

15 3. The connectivity device as specified in Claim 2 wherein the operating system is configured to connect to a highest numbered endpoint via the first interface.

4. The connectivity device as specified in Claim 1 wherein the handheld
20 communications device comprises a PDA.

5. The connectivity device as specified in Claim 1 wherein the handheld communications device comprises a smartphone.

6. The connectivity device as specified in Claim 1 wherein the first interface
5 is adapted to serially communicate with the handheld communications device.

7. The connectivity device as specified in Claim 1 wherein the first interface is adapted to wirelessly communicate with the handheld communications device.

10 8. The connectivity device as specified in Claim 1 wherein the handheld communications device has a processor, and memory storing data indicative of visual images, wherein the second interface is adapted to communicate the data to the display device for visually rendering the data.

15 9. The connectivity device as specified in Claim 8 wherein the data is indicative of slides and forms a visual presentation.

10. The connectivity device as specified in Claim 9 wherein the data is in a Powerpoint® format.

11. The connectivity device as specified in Claim 1 further comprising a third interface adapted to receive control data and responsively communicate the control data to the handheld communications device.

5 12. The connectivity device as specified in Claim 11 wherein the third interface is adapted to receive and communicate the control data from a keyboard.

13. The connectivity device as specified in Claim 12 wherein the third interface is adapted to receive and communicate the control data from a mouse.

10

14. The connectivity device as specified in Claim 13 wherein the communication device is adapted to detect and forward the keyboard and mouse control data to the handheld communications device such that it is executable thereby.

15

15. The connectivity device as specified in Claim 14 wherein the keyboard control data is translated into keystrokes such that it is executable by the handheld communications device.

20 16. The connectivity device as specified in Claim 14 wherein the mouse control data is translated into stylus taps and cursor movements such that it is executable by the handheld communications device.

17. The connectivity device as specified in Claim 15 wherein the keystrokes
are inserted into a data queue.

18. The connectivity device as specified in Claim 16 wherein the stylus taps
5 and cursor movements are inserted into a data queue.

19. The connectivity device as specified in Claim 13 wherein the connectivity
device has a fourth interface adapted to receive wireless control data from a
physically remote control device such that the connectivity device is controllable
10 as a function of the wireless control data.

20. The connectivity device as specified in Claim 8 wherein the first interface
is adapted to communicate with the handheld communications device using a
Bluetooth protocol.

15

21. The connectivity device as specified in Claim 8 wherein the first interface
is adapted to communicate with the handheld communications device using a
802.11 protocol.

20 22. The connectivity device as specified in Claim 8 wherein the first interface
comprises an infrared transceiver.

23. The connectivity device as specified in Claim 1 wherein the operating system is based on a Linux Kernel.

24. The connectivity device as specified in Claim 23 further comprising RAM
5 memory operatively coupled to the processor.

25. A computer readable medium comprising instructions for:
receiving visual presentation data from a physically remote handheld computing device;
10 processing the visual presentation data; and
driving the processed visual presentation data to a physically remote display.

26. A computer readable medium as specified in Claim 25 further comprising
15 instructions for:
receiving keyboard and mouse input commands, translating the input commands, and transmitting the translated input commands to the handheld computing device; and
processing the visual presentation data as a function of the input
20 commands.

27. A computer readable medium as specified in Claim 26 wherein the handheld computing device is a PDA.

28. A computer readable medium as specified in Claim 26 wherein the
5 handheld computing device is a Smartphone.

29. A computer readable medium as specified in Claim 26 further comprising instructions for wirelessly transmitting the translated input commands to the handheld computing device.

10

30. A computer readable medium as specified in Claim 26 further comprising operating instructions for operating as a USB host system.

31. A computer readable medium as specified in Claim 30 wherein the
15 operating instructions are configured to connect to a highest numbered endpoint of the handheld computing device.

32. A computer readable medium as specified in Claim 25 further comprising instructions for responding to wireless control commands and effecting driving of
20 the processed presentation data to the physically remote display.

33. A computer readable medium as specified in Claim 26 further comprising instructions for responding to wireless control commands and effecting transmission of data to the handheld computing device.

5 34. A computer readable medium as specified in Claim 26 further comprising instructions for detecting and forwarding keyboard and mouse input commands to the handheld computing device.

10 35. A computer readable medium as specified in Claim 34 further comprising instructions for translating the keyboard and mouse input commands to keystroke data, cursor movements and stylus tap data.

15 36. A computer readable medium as specified in Claim 35 further comprising instructions for inserting the keystroke data, cursor movements and stylus tap data into a data queue executable by the handheld computing device.

37. A handheld computing device, comprising:

a display;

a processor adapted to execute a visual presentation program;

20 the processor further being adapted to receive and respond to control data received from a physically remote control device to control the visual presentation program.

38. A handheld computing device as specified in Claim 37 wherein the
5 processor is adapted to receive and respond to the control data being keystroke,
cursor movement and stylus tap control data.
39. A handheld computing device as specified in Claim 37 wherein the
processor visual renders the keystroke and cursor movement data on the display in
10 conjunction with the visual presentation program.
40. A handheld computing device as specified in Claim 37 wherein the
processor is adapted to run a PowerPoint® presentation.